

Amendments to the Specification:

Please replace the Abstract of the Invention with the following amended paragraph:

A method for short-term prediction of storm cells in aircraft using a modified weather radar system, and a modified weather radar system embodying the method. The storm cell prediction method including the operations of accessing first and second weather radar images generated relative to the aircraft and having a similar relationships to the aircraft; mapping the first weather radar image onto the second weather radar image; comparing the first and second weather radar images; forecasting information describing a weather condition represented by the first and second weather radar images; retrieving a phase of flight of the aircraft; and generating a warning as a function of the forecast information describing a weather condition and the aircraft phase of flight.